Home <u>Projects</u> 3D Printing Contact About

Interfacing TNC's to Motorola Mobile Radios

Description:

There are two common families of Motorola mobiles that are used for packet. They are typically single unit (not remote head), with a 16 or 20 pin interface connector on the backside of the radio. There are older models such as the Maxtrac, Radius M100, M120 and similar. Newer models include CDM750's, CDM1250's and the entrie XPR series of mobiles.

16 Pin Connector:

RADIO							
2	4	6	8	10	12	14	16
1	3	5	7	9	11	13	15

1	External Speaker (-)
2	External Microphone Audio
3	Push To Talk
4	Spare
5	Flat Transmit Audio
6	Spare
7	Ground
8	COR (Active Low)
9	Spare
10	Ignition Control
11	Receive Audio
12	Spare
13	Switched A+ Sense
14	Hook Switch
15	Internal Speaker (+)
16	External Speaker (+)

20 Pin Connector:

RADIO									
20	2	4	6	8	10	12	14	16	18
19	1	3	5	7	9	11	13	15	17

ternal Speaker (-)
ternal Microphone Audio
gital Input #1
gital Output #2 (External arm)
at Transmit Audio
gital Input #3 (UART_RX)
ound
gital In/Out #4 [ART_TX]
gital In #5 (Emergency)
gital In #6 (Ignition)
at/Filtered Receive Audio
gital In/Out #7
vitch B+
gital In/Out #8
SSI
ternal Speaker (+)
JS+
oot Control
Connection Connection
Connection

26 Pin Connector:

					R	ADI	O					
2	4	6	8	10	12	14	16	18	20	22	24	26
1	3	5	7	9	11	13	15	17	19	21	23	25

1	USB Data +
2	USB Data -
3	VBUS
4	USB/MAP_ID/Ground
5	MAP_ID_2
6	MAP_ID_1
7	SW B+
8	Power Ground
9	External Speaker (-)
10	External Speaker (+)
11	External Transmit Audio
12	Audio Ground
13	AUX Audio Out #1 / RXD

14	Receive Audio
15	AUX Audio Out #2 / TXD
16	Ground
17	Push To Talk/GP5_1
18	Ground
19	Monitor/GP5_2
20	GP5_6
21	Channel Activity/GP5_3
22	GP5_7
23	Emergency Switch
24	GP5_8
25	Ignition Sense
26	VIP_1/External Alarm











